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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/046,596	10/23/2001	Michael J. Schaffer	INTL-0588-US	2881

7590 12/04/2002
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HOUSTON, TX 77024-1805

EXAMINER

TRAN, CHUC

ART UNIT	PAPER NUMBER
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2821

DATE MAILED: 12/04/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/046,596

Applicant(s)

SCHAFFER, MICHAEL J.

Examiner

Chuc D Tran

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 October 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-24 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1,2,4,6,7,9,11,12 and 14 is/are rejected.
- 7) ☒ Claim(s) 3,5,8,10,13,15-24 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 23 October 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- ☒ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- ☐ Interview Summary (PTO-413) Paper No(s). _____
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

(1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or

(2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

2. Claims 1, 4, 7, 9, 12 and 14 are rejected under 35 U.S.C. 102(e) as being anticipated by Crawford (USP. 6,456,242).

Regarding claims 1, 4, 7, 9 and 12, Crawford disclose a conformal box antenna comprising :

- a wireless network computer having a chassis (510) (Fig. 9);
- an integrated chassis antenna that is coupled to the integrated chassis antenna (Col. 5, Line 33-42);
- a first wireless network device (572) coupled to the integrated chassis antenna (530) (Col. 10, Line 52) Fig. 10); and
- a second wireless network device (570) operative to communicate with the wireless network computer (Col. 10, line 1-3);
- an antenna having a feed point (Col. 8, Line 1); and the wireless device (470) coupled to the feed point of the antenna (450) (Col. 8, Line 1) (Col. 8, Line 36-52) (Fig. 7);
- the antenna includes a center conductor retention feature (Fig. 10);

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- Regarding claim 14, Crawford also disclose a method of fabricating a chassis (Col. 13, line 24); and
- Integrating an antenna with the chassis (Col. 2, line 4-15) (Col. 13, line 24-36).

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 2, 6 and 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Crawford.

Regarding claims 2, 6 and 11, Crawford disclose a conformal box antenna comprising a chassis (502) includes a front edge (Col. 9, Line 29) (Fig. 8). However, Crawford is silent on the limitation of the coaxial cable shield conductor is coupled to the chassis at the front edge. Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the coaxial cable shield conductor is coupled to the chassis at the front edge as to be a ground circuit since it was known in the art that (Col. 6, line 58).

Allowable Subject Matter

5. Claims 3, 5, 8, 10, 13 and 15-24 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Citation of relevant prior art

Prior art Fenwick et al (USP. 6,400,321) disclose a surface mountable patch antenna with coaxial cable feed for wireless applications.

Prior art Quinn et al (Pub. US 2002/0101378 A1) disclose an antenna module interface extension).

Prior art Crawford (USP. 6,456,242) disclose a conformal box antenna.

Prior art Cockson et al (USP. 5,646,635) disclose a PCMCIA antenna.

Prior art Cumro et al (USP. 6,433,747) disclose an integrated PIFA having an embedded connector on the randome thereof.

Prior art Haussler et al (USP. 6,342,860) disclose a micro internal antenna.

Prior art Stoiljkovic et al (USP. 6,448,932) disclose a dual feed internal antenna.

Prior art Bishop (USP. 6,337,666) disclose a planar sleeve dipole antenna.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chuc D Tran whose telephone number is (703)306-5984. The examiner can normally be reached on M-F Flex hours.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Don Wong can be reached on (703)308-4856. The fax phone numbers for the organization where this application or proceeding is assigned are (703)746-4048 for regular communications and (703)308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)308-0956.

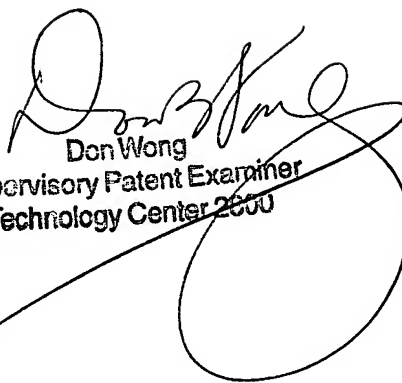
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TDC

November 22, 2002



Don Wong
Supervisory Patent Examiner
Technology Center 2800